

Tops of foundations shall be troweled to a dense smooth finish. Exposed surfaces shall be cured by use of a liquid membrane curing compound.

**801.03.04 Unusual Soil Conditions.** When unexpected subsurface conditions are encountered, the excavation depth shall be modified as directed by the Engineer. Rock or boulders which cannot be removed by ordinary means shall be removed to the levels and dimensions specified in the Contract Documents, or to a depth necessary to obtain the required stability as directed by the Engineer.

**801.03.05 Backfill.** Material used for backfill shall be free of topsoil, organic, frozen, or other undesirable material. Spaces to be backfilled shall be kept free of trash and shall be cleaned before backfill is placed. Backfill material shall be suitable material from the excavation or other sources conforming to Section 204. All backfill shall be compacted in layers not exceeding 8 in. loose thickness. Compaction shall be done with mechanical or vibratory compaction equipment to obtain at least 92 percent of maximum density at a moisture content within 2 percent of the optimum in conformance with T 180, Method C.

**801.04 MEASUREMENT AND PAYMENT.** Concrete foundations for installing traffic signals, highway lighting and signs will be measured and paid for at the Contract unit price per cubic yard for the pertinent Concrete Foundation item. The payment will be full compensation for all concrete, excavation, corrugated metal pipe or forms, reinforcement steel, anchor bolts, backfill and for all material, labor, equipment, tools, and incidentals necessary to complete the work.

When concrete barrier transitions, conduit, and grounding are required, they will be measured and paid for as specified in Sections 604, 802, 803, 804, 805, 808, 816 and 818.

## SECTION 802 — GALVANIZED STEEL BEAM SIGN POSTS

**802.01 DESCRIPTION.** This work shall consist of furnishing and installing galvanized steel beam sign posts as specified in the Contract Documents or as directed by the Engineer.

### 802.02 MATERIALS.

Bolts, Nuts and Washers	909.07
Galvanizing for Beams	A 123

Galvanizing for Hardware	A 153
Steel Beams	A 709

**802.03 CONSTRUCTION.** Galvanized parts that have been cut or chipped to bare metal shall be repaired as specified in A 780.

Galvanized steel beam sign posts shall be placed in the ground in a plumb position to the lateral orientation specified in the Contract Documents.

Each location where galvanized steel beam sign posts are to be installed shall be staked out by the Contractor and approved by the Engineer. After staking out the galvanized steel beam sign posts and obtaining approval for their location from the Engineer, the Contractor shall submit working drawings and upon approval be permitted to order materials. The Contractor shall indicate on the working drawings the highest elevation of the traveled roadway and the shoulder elevation where sign posts will be installed.

**802.04 MEASUREMENT AND PAYMENT.** Galvanized Steel Beam Sign Posts will be measured and paid for at the Contract unit price per linear foot for the various sizes of posts specified in the Contract Documents. The payment will be full compensation for stakeout, furnishing and installing the posts and for all material, labor, equipment, tools, and incidentals necessary to complete the work.

Breakaway Base Support Systems, when specified in the Contract Documents, will be measured and paid for as specified in Section 821.

**SECTION 803 — OVERHEAD SIGN STRUCTURES**

**803.01 DESCRIPTION.** This work shall consist of furnishing and fabricating overhead sign structures and other appurtenances as specified in the Contract Documents or as directed by the Engineer. Sign panels, electrical work, luminaires, and foundations are excluded.

**803.02 MATERIALS.**

Bolts, Nuts and Washers	909.07
Overhead Sign Structures	950.04

**803.03 CONSTRUCTION.** All fabrication shall be done in the shop as specified in Section 430, except that welding shall conform to ANSI/AWS D1.1, Tubular Structures.